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BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application of Dominion Energy Utah to Make Tariff Modifications Relating to Transportation Service

Docket No. 18-057-T04

PREFILED DIRECT TESTIMONY OF

KEVIN C. HIGGINS

The Utah Association of Energy Users ("UAE") hereby submits the Prefiled Direct Testimony of Kevin C. Higgins in this docket.

DATED this 12th day of September 2018.

HATCH, JAMES & DODGE

Pries Dussell

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CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was served by email this 12th day of September 2018 on the following:

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BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application of Dominion)	
Energy Utah to Make Tariff Modifications)	Docket No. 18-057-T04
Relating to Transportation Service)	
)	

Direct Testimony of Kevin C. Higgins

On Behalf of the

Utah Association of Energy Users

September 12, 2018

I. INTRODUCTION AND SUMMARY

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A. My name is Kevin C. Higgins. My business address is 215 South State
 Street, Suite 200, Salt Lake City, Utah, 84111.

5 Q. By whom are you employed and in what capacity?

A. I am a Principal in the firm of Energy Strategies, LLC. Energy Strategies is a private consulting firm specializing in economic and policy analysis applicable to energy production, transportation, and consumption.

9 Q. On whose behalf are you testifying in this proceeding?

10 A. My testimony is being sponsored by the Utah Association of Energy Users

11 ("UAE").

12 Q. Please summarize your qualifications.

My academic background is in economics, and I have completed all coursework and field examinations toward a Ph.D. in Economics at the University of Utah. In addition, I have served on the adjunct faculties of both the University of Utah and Westminster College, where I taught undergraduate and graduate courses in economics. I joined Energy Strategies in 1995, where I assist private and public sector clients in the areas of energy-related economic and policy analysis, including evaluation of electric and gas utility rate matters.

Prior to joining Energy Strategies, I held policy positions in state and local government. From 1983 to 1990, I was economist, then assistant director, for the Utah Energy Office, where I helped develop and implement state energy policy.

23		From 1991 to 1994, I was chief of staff to the chairman of the Salt Lake County
24		Commission, where I was responsible for development and implementation of a
25		broad spectrum of public policy at the local government level.
26	Q.	Have you previously testified before the Utah Public Service Commission
27		("Commission")?
28	A.	Yes. Since 1984, I have testified in forty dockets before the Utah Public
29		Service Commission on electricity and natural gas matters.
30	Q.	Have you testified previously before any other state utility regulatory
31		commissions?
32	A.	Yes, I have testified in approximately 180 other proceedings on the
33		subjects of utility rates and regulatory policy before state utility regulators in
34		Alaska, Arkansas, Arizona, Colorado, Georgia, Idaho, Illinois, Indiana, Kansas,
35		Kentucky, Michigan, Minnesota, Missouri, Montana, Nevada, New Mexico, New
36		York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina,
37		Texas, Virginia, Washington, West Virginia, and Wyoming. I have also filed
38		affidavits in proceedings before the Federal Energy Regulatory Commission and
39		prepared expert reports in state and federal court proceedings involving utility
40		matters.
41	Q.	What is the purpose of your direct testimony?
42	A.	My direct testimony addresses the introduction of a new tariff provision
43		proposed by Dominion Energy Utah ("DEU"), called "Hold Burn to Scheduled
44		Quantity "which pertains to Transportation Service ("TS")

Q. Please provide a summary of your conclusions and recommendations.

A.

I agree that it is useful to differentiate between capacity constraints, which are addressed by tariff provisions relating to interruptions, and supply constraints, which the proposed Hold Burn to Scheduled Quantity restriction is intended to address. Distinguishing between these two types of constraints lends clarity to the tariff. However, if the Hold Burn to Scheduled Quantity provision is adopted, I recommend the following changes:

- 1. The proposed \$25/Dth penalty for violating a Hold Burn to Scheduled Quantity restriction has no basis in cost causation, is unduly punitive, and should be rejected. TS customers have already demonstrated a high degree of responsiveness to price signals that are significantly more moderate than the proposed penalty. Before introducing a penalty of this magnitude, customers should be given the opportunity to demonstrate compliance with this new restriction when it is called. I recommend that the penalty should be no greater than \$5/Dth.
- 2. DEU proposes that the Hold Burn to Scheduled Quantity restriction be applied at the *individual* TS customer level rather than aggregated at the supplier level. This makes little sense to me. If there is concern about a supply event, then the most straightforward means to address the concern is at the supplier level. This is the level at which the issue is most effectively managed and it is also the level at which violations of the restriction would most appropriately be measured.

	3. On days in which the Hold Burn to Scheduled Quantity restriction is in
effect, t	there should be no charges for positive daily imbalances in excess of the
5% tole	erance

- 4. In cases in which both a penalty for failure to interrupt and a penalty for violation of a Hold Burn to Scheduled Quantity restriction would apply to the same dekatherms, the penalty should be limited to the larger of the two.
- 5. I recommend some wording changes in two parts of DEU's proposed tariff language for Section 3.02 that I believe are more reasonable than DEU's proposed language.

II. <u>DEU'S PROPOSED "HOLD BURN TO SCHEDULED QUANTITY"</u>

RESTRICTION

A.

Q. Briefly describe the Hold Burn to Scheduled Quantity restriction being proposed by DEU.

The newly-proposed Hold Burn to Scheduled Quantity restriction is a restriction that would be placed on transportation customers prohibiting each of them (on an individual basis) from using gas in excess of their confirmed schedules for gas received into the DEU system. Each TS customer would be penalized for any gas used above its scheduled quantity for the gas day. The Hold Burn to Scheduled Quantity restriction is distinct from an interruption. Whereas an interruption may be called due to capacity constraints on the DEU system, a Hold Burn to Scheduled Quantity restriction would be called when there are

Kevin C. Higgins, Direct Testimony UAE Exhibit 1.0 Docket No. 18-057-T04 Page 5 of 17

concerns that the scheduled quantities will not meet the customer demand. As 88 explained by DEU witness Abigail Thomas, a Hold Burn to Scheduled Quantity 89 restriction will be issued through an operational flow order ("OFO"), a process 90 much like the process the Company historically used to call a "supply 91 curtailment."2 92 What penalty is DEU proposing for violating a Hold Burn to Scheduled Q. 93 94 **Quantity restriction?** DEU is proposing a penalty of \$25 per Dth, plus the index-based gas cost A. 95 applied to the customer's gas usage in excess of the daily restriction.³ 96 97 III. ASSESSMENT OF THE PROPOSED "HOLD BURN TO SCHEDULED 98 **QUANTITY" RESTRICTION** 99 Q. Do you agree that it is useful to differentiate in the tariff between a Hold 100 **Burn to Scheduled Quantity restriction and an interruption?** 101 Yes. Making the distinction between a Hold Burn to Scheduled Quantity 102 A. restriction and an interruption lends clarity to the tariff. As explained by Ms. 103 Thomas, the two conditions are different: the former is intended to address a 104 105 supply constraint, whereas the latter is intended to address a system capacity constraint. The two different constraints require different operational responses. 106

For example, when DEU is experiencing supply problems, but is not capacity

constrained, it makes sense to allow all TS customers (including interruptible

¹ Direct Testimony of Abigail Thomas, lines 66-74.

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² *Id.*, lines 46-50.

³ *Id*, lines 124-127.

customers) to continue to burn gas, so long as they do not exceed the volumes delivered on their behalf.

A.

In the past, the distinction between these conditions has been blurred with confusing results. For example, I understand that at least one *firm* service TS customer has been penalized \$40/Dth for consuming gas in excess of its scheduled quantity during an *interruption*. That is, the customer was charged the penalty for *failure to interrupt* applied to its *firm* service because its firm service consumption was in excess of its scheduled quantity during an interruption – even though the customer's consumption was *within* its firm contract limit. The Company's interpretation of its current tariff in this way is puzzling and may have been the result of conflating a supply constraint with a capacity constraint. Distinguishing in the tariff between conditions of supply constraint and capacity constraint as now proposed makes sense and should help avoid this kind of confusing situation.

Q. Are you recommending any modifications to the terms proposed by DEU?

Yes. I am recommending several changes. First, I recommend that the proposed \$25/Dth penalty be set at a lower level – specifically, no greater than \$5/Dth. The Hold Burn to Scheduled Quantity restriction is a brand new provision. The penalty should be sufficient to incent the desired scheduling behavior without being unreasonably punitive.⁵ As it is a new provision, there is

⁴ This matter is the subject of a formal complaint by the customer filed at the Commission. I note here that I am not aware of any provision in the current DEU tariff that permits the \$40/Dth penalty to be applied to firm service in excess of scheduled delivery within the customer's firm contract limit.

⁵ For example, as proposed, a customer that exceeded its Hold Burn to Scheduled Quantity by 5,000 Dth on

no experience with customer behavior in responding to the Hold Burn to Scheduled Quantity restriction. Before introducing a penalty of this magnitude, customers should be given the opportunity to demonstrate compliance with this new restriction when it is called.

I note that TS customers have already demonstrated a high degree of responsiveness to price signals that are significantly more moderate than the proposed penalty. This has occurred, for example, in keeping daily imbalance levels within 5%. As reported by DEU, since the imposition of the Daily Transportation Imbalance Charge, the net annual daily imbalance has fallen from 7.36% in 2014 to 5.39% in 2018, i.e., from 2.36% above the 5% tolerance to just 0.39% above it.⁶ The Daily Transportation Imbalance Charge levied on daily imbalances outside the 5% tolerance is currently \$0.07645/Dth – a small fraction of the \$25/Dth penalty being proposed in this case.

Q. Does the proposed \$25/Dth penalty appear to have any relationship to cost causation or liquidated damages?

I am not aware of such a relationship and none has been claimed by DEU. The penalty appears to be unduly punitive and arbitrary. Currently, DEU's tariff provides a \$25/Dth penalty for a customer that *repeatedly* ignores DEU's written instructions to adhere to balancing restrictions under an OFO.⁷ My understanding, based on the discussion in the Technical Conference of August 29, 2018, is that this extreme penalty has never actually been imposed. However,

a given day would be penalized \$125,000.

⁶ DEU Presentation, August 29, 2018 Technical Conference, slide 12.

⁷ See DEU Tariff, page 5-16.

DEU is now proposing to impose this same penalty automatically in *every instance*, including inadvertent ones, in which the Hold Burn to Scheduled Quantity restriction is violated. This is simply too draconian a jump and is without a reasonable basis.

Q. Why do you maintain that the proposed \$25/Dth penalty is unreasonable when it is less than the current \$40/Dth penalty for failure to interrupt?

The \$40/Dth penalty for failure to interrupt is a significant. However, it at least has some nexus to cost causation, whereas the proposed \$25/Dth penalty for violating a Hold Burn to Scheduled Quantity restriction does not. The \$40/Dth penalty is applied to a customer that has elected to subscribe to interruptible service rather than firm service – and then fails to interrupt when called upon to do so. The \$40/Dth penalty effectively charges such a customer the difference between interruptible service and firm service measured over a full year at a 65% load factor. As such, this penalty, while severe, at least has some nexus to cost. In contrast, the proposed \$25/Dth penalty for violating a Hold Burn to Scheduled Quantity restriction is applicable to both firm and interruptible TS customers, and is unrelated to cost. While I agree that it may be appropriate to send a price signal to customers during supply events, I see no reasonable basis for a penalty of \$25/Dth.

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⁸ In addition, the load that the customer fails to interrupt is transferred to firm service for three years, an additional penalty that is also severe and that has no cost-causation basis. My recommendation for some wording changes to make this portion of the tariff more reasonable is addressed below.

Q. What price signals are currently sent to customers when OFOs are issued?

Currently, DEU's tariff provides for a daily balancing requirement of +/-5%. The current tariff gives DEU the right to suspend all or a part of the daily imbalance tolerance window under certain conditions when aggregate imbalances: (1) require the Company to take action to maintain system integrity, or (2) reasonably could be expected to force the Company to materially alter its prior day's planned level of (a) gas purchases, (b) Company production, or (c) storage injections or withdrawals. A customer or nominating party that fails to comply with balancing restrictions so imposed is subject to a balancing penalty of the greater of \$1.00/Dth or the absolute value of the difference between the monthly market index price and the gas daily market index price plus \$0.25/Dth. Seen in this context, the proposed penalty for violating a Hold Burn to Scheduled Quantity restriction is effectively 25 times greater than the current penalty for violating a daily balancing restriction during an OFO. I do not believe such an extreme penalty is reasonable. A \$5 penalty is much more aggressive than the current penalty. I strongly recommend against a more severe penalty, particularly when there is reason to believe that a \$5 penalty is sufficient to incent the intended behavior.

Q. Do you have other concerns regarding the proposed Hold Burn to Scheduled

Ouantity restriction?

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⁹ See DEU Tariff, page 5-15.

Yes. As proposed, the Hold Burn to Scheduled Quantity restriction would be applied at the *individual* TS customer level rather than aggregated at the supplier level. That is, even if a given supplier delivers enough gas to meet its customers' aggregate usage on the day(s) of a Hold Burn to Scheduled Quantity restriction, the supplier's individual customers that violate the restriction will be penalized nonetheless. This makes little sense to me. If there is concern about a supply event, then the most straightforward means to address the concern is at the supplier level. This is the level at which the issue is most effectively managed and it is also the level at which violations of the restriction would most appropriately be measured. Indeed, it is my understanding that OFOs triggered by supply constraints are in fact managed at the supplier level today. This concept is reinforced on page 20 of DEU Exhibit 1.5 where the Hold Burn to Scheduled Quantity OFO is called simultaneously with an Interruption. In this example, DEU identifies a quantity (25 Dth) of TS customer scheduled gas supply that "can be cut, redirected, or left on the system as imbalance." All of these remedies are best implemented at the supplier level. I recommend that DEU be instructed to propose modifications to its tariff language to address supply constraints and penalties at the supplier level. Besides the fact that \$5/Dth is less than \$25/Dth, do you have additional reasons for believing that the former is a more reasonable penalty?

Yes. My understanding is that one of DEU's concerns during a supply

event is that suppliers might opt to use DEU's gas while remarketing their own

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gas to users downstream. I do not know the extent to which such activity has previously occurred.¹⁰ However, to the extent this is a concern, a \$5/Dth penalty represents about twice the price of gas commodity at current annual average prices. In addition to paying DEU for the gas, plus normal daily imbalance charges, a customer violating a Hold Burn to Scheduled Quantity restriction would pay a penalty equal to approximately twice the current price of gas if a \$5/Dth penalty is adopted. If a Hold Burn to Scheduled Quantity restriction is introduced into the tariff, I believe this is a more reasonable basis for a penalty than DEU's proposal.

Q.

A.

Do you have any additional recommendations concerning implementation of the Hold Burn to Scheduled Quantity restriction?

Yes. On days in which the Hold Burn to Scheduled Quantity restriction is in effect, there should be no charges for positive daily imbalances in excess of the 5% tolerance. During supply events, customers who deliver more gas to the system than they consume are helping ensure system supply. It would be counterproductive to charge customers for positive daily imbalances on such days. Moreover, as a practical matter, to avoid the penalty for exceeding the Hold Burn to Scheduled Quantity restriction it may be necessary for TS customers to err on the side of over-delivering gas for the day, since they generally are not in a position to know their gas usage in real time. Therefore, it is also equitable to waive the positive imbalance charge when a Hold Burn to Scheduled Quantity

 $^{^{10}}$ As I noted above, the \$25/Dth penalty for repeatedly ignoring daily balancing restrictions has never been imposed to my knowledge.

being sent on such days. 233 Have you reviewed the examples attached to Ms. Thomas's direct testimony Q. 234 in DEU Exhibit 1.5? 235 A. Yes, I have. 236 Do you have any comments on any of the specific examples? Q. 237 238 A. Yes. I have comments on two of the examples. What is your first comment? 239 Q. My first comment pertains to the example on page 17 of DEU Exhibit 1.5. A. 240 In this example, a Hold Burn to Scheduled Quantity OFO is issued because the 241 Company experienced a supply disruption, but DEU does *not* call for 242 interruptions. The customer in the example has a firm contract limit of 50 Dth, 243 but burns 75 Dth. Clearly, 25 Dth are in excess of the Hold Burn to Scheduled 244 Quantity restriction and are subject to the penalty for violating that restriction 245 (\$25/Dth plus daily index price in DEU's example). I have no objection to this 246 aspect the example, except for the \$25/Dth itself, which I have already addressed 247 above. 248 249 But in addition to the \$25/Dth penalty, DEU maintains that the customer should *also* be subject to a \$40/Dth penalty on the same 25 Dth, which is 250 considered to be "overrun" usage; that is, in addition to being in excess of the 251 Hold Burn to Scheduled Quantity restriction, this 25 Dth is also in excess of the 252 customer's contracted amount. As DEU notes in the example on page 18 of DEU 253

restriction is in effect in recognition of the strong signal to over-schedule that is

Exhibit 1.5, however, the TS customer in this example would be spared the \$40/Dth penalty if it had an additional contract for interruptible volumes such that its combined firm and interruptible contract limits were greater than its burn on that day. In other words, the customer *could* have elected (at no incremental fixed cost) to contract for interruptible service in excess of its firm contract – in which case the customer would not have been subject to the additional \$40/Dth penalty. But having not procured the incremental interruptible service, the customer is, according to DEU, liable for an additional penalty that is equal to the failure to interrupt penalty.

This additional penalty makes no sense to me. First, no interruption has been issued in the example, and therefore the \$40/Dth "failure to interrupt" penalty should not even come into play. Second, by failing to secure an incremental interruptible contract, the customer has not saved any money – i.e., there is no "gaming" opportunity here – the customer simply misjudged the amount of service it needed. The appropriate penalty in this example is the penalty for violating the Hold Burn to Scheduled Quantity restriction and nothing more – just as is the case for the customer on the following page of DEU Exhibit 1.5 (p. 18), which assumes identical circumstances as the example on page 17, except the customer also has contracted for 30 Dth of interruptible service. For the customer in the example on page 17, there is no basis for charging the \$40/Dth failure to interrupt penalty and certainly no basis for requiring a forward-going

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¹¹ See also Direct Testimony of Abigail Thomas, lines 187-200. DEU confirmed at the August 29, 2018 Technical Conference that the customer would not be required to nominate any of its interruptible volumes to be spared the \$40/Dth penalty under the Hold Burn for Scheduled Quantity restriction.

three-year commitment to purchase *firm* service on the offending 25 Dth, when interruptible service would have sufficed from the beginning. If anything, imposition of this significant penalty in such circumstances will simply incent customers to contract for more interruptible service than they need.

Q. What is your second comment?

A.

My second comment responds to the concept of a double penalty. In the example on page 17 of DEU Exhibit 1.5, discussed above, as well as in the example on page 21 of that exhibit, the customer is subject to a double penalty of \$65/Dth (\$25/Dth plus \$40/Dth) on certain dekatherms. In the first case, I have demonstrated that there is no logical basis for the \$40/Dth charge in the first place; thus, the double penalty should be moot for that example by virtue of that demonstration.

However, in the example on page 21, the customer is assumed to have violated *both* the Hold Burn to Scheduled Quantity restriction *and* the interruption notice for 15 Dth of its usage. And for that 15 Dth, DEU maintains that a double penalty of \$65 is called for.

I recommend against imposing such a double penalty. While I do not disagree that the customer in the example has violated two restrictions, the penalty should be limited, as a matter of reasonableness, to the maximum single penalty applicable. The larger penalty, \$40/Dth, is already very steep. When it is imposed, it is most likely the result of a communication or implementation error on the customer's part, rather than purposefully ignoring an instruction to

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the customer by including the Hold Burn to Scheduled Quantity penalty on the 298 same dekatherms, even if it would otherwise be applicable. 299 300 IV. **DEU TARIFF LANGUAGE** 301 Q. Do you have any comments on DEU's proposed TS tariff language? 302 303 A. Yes. I have two specific comments. What is your first comment? 304 Q. DEU's proposed new language for a portion of the first paragraph of 305 A. Section 3.02 under "Periods of Interruption" reads as follows: 306 Service under interruptible service rate schedules is subject to temporary 307 periods of interruption upon notice by the Company, whenever the 308 Company, in its sole discretion, determines interruption is required to 309 serve customers with firm service. 310 311 This "sole discretion" language is new in this context¹² and I do not believe it is 312 reasonable. I recommend that the clause "in its sole discretion" be removed. It is 313 my understanding that, when a utility tariff has been approved by the 314 Commission, it has the effect of law. My concern is that adding "sole discretion" 315 language here might have unintended consequences. I would not want such 316 language to be interpreted to allow the utility to abuse its discretion with impunity 317 or to diminish the Commission's ability to grant relief to customers when 318 appropriate. This language was not previously included in this section and I do 319 not believe it should be added now. 320

interrupt. In such a situation, I see little justification in compounding the cost to

¹² I note that "sole discretion" is used in other sections in the DEU tariff. While I have a concern with the use of that term generally, those other sections are not at issue in this docket so I do not address them here.

Q. What is your second comment?

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The "Failure to Interrupt" provisions of Section 3.02 automatically impose both a \$40/Dth penalty and a requirement of three years of firm service upon any failure to interrupt, regardless of the circumstances that led to the failure to interrupt. As discussed previously, both of these penalties are severe. And, while I acknowledge that there is some cost-based nexus for the \$40 penalty, there is no such nexus for the three-year firm service requirement. My understanding is that there may be times when a failure to interrupt is due to inadvertent or unusual circumstances that are not likely to repeat themselves. Under such circumstances, I do not believe that a three-year firm service requirement should automatically be imposed. Rather, I suggest that DEU's proposed language in Section 3.02 be revised to something like the following:

If a customer fails to interrupt when properly called upon by the Company to do so, then beginning on July 1st following the failure to interrupt, the customer will may be moved from the interruptible rate schedule to an available firm rate schedule for three years for those interruptible volumes it failed to interrupt so that the total firm amount for the next three years is equal to the amount burned during the interruption. If the customer is in this three-year firm period and uses volumes in excess of their firm amount during an interruption, the customer's total firm amount may will be adjusted equal to the amount burned on the most recent interruption and the three-year penalty period may will begin again on the following July 1st. To the extent that the Company determines that providing firm service is operationally infeasible, then the customer will may be required to pay a demand charge that would have applied for those interruptible volumes it failed to interrupt for three years, beginning on July 1st following the failure to interrupt, but will continue to receive interruptible service. At the conclusion of the three year period the firm amount may be reduced upon request by the customer. The conditions specified in this paragraph will be imposed unless the customer is able to demonstrate that a failure to interrupt was inadvertent and due to circumstances that are not likely to reoccur.

I believe that a customer that can demonstrate that inadvertent and unusual circumstances caused its failure to interrupt should be permitted to avoid at least

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353		one part of the two-part penalty for failure to interrupt. I believe this two-part
354		penalty is appropriate only when a customer's failure to interrupt effectively
355		demonstrates that it should have been on firm service in the first place, not under
356		unusual circumstances that are unlikely to repeat themselves.
357	Q.	Does this conclude your direct testimony?
358	A.	Yes, it does.